

# Notice of Allowability

Application No.

09/360,440

Examiner

Baoquoc N. To

Applicant(s)

CRAIG, ROBERT M.

Art Unit

2162

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 05/23/2007.
2. ☒ The allowed claim(s) is/are 43-54, 57-70 and 73-75.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of \_\_\_\_\_  
Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 20070523
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### **DETAILED ACTION**

1. Claims 43 and 57 are amended in the amendment filed on 04/17/2007. Claims 43-75 are pending in this application.

### **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Tadd F. Wilson Reg. No. 54,544 on 05/23/2007

43. (Currently amended) A computer-readable storage medium having computer-executable components executed by a computer system causing the computer system to provide access to Component Object Model (COM) configuration data about applications and services, in a runtime environment, sourced by one or more datastores, the components comprising:

a runtime catalog accessible by a server application and running on a server;  
one or more table object dispensers called by the runtime catalog in response to a request for COM configuration data; and

a table system created by the one or more table object dispensers in response to the runtime catalog, the table system providing the COM configuration data to the

server application, the server application executing with the COM configuration data, the table system including:

- one or more datastores to store the COM configuration data;
- one or more logic table objects to present the COM configuration data; and
- one or more data table objects created by the one or more logic table objects, each data table object exposing a table cursor into one of the datastores, each data table object bound to one of the datastores.

wherein the one or more logic table objects supplement functionality of the one or more data table objects by intercepting interface calls and providing, at least one of, additional and overriding functionality of the one or more data table objects or the one or more logic table objects synthesize data, according to a type of request for COM configuration data, which is not available from the one or more data table objects.

44. (Currently amended) The computer-readable medium as defined in claim 43, wherein the table cursor is a predetermined table-oriented interface that hides the location and format of the underlying datastore.

45. (Currently amended) The computer-readable medium as defined in claim 43, wherein two or more data table objects access one datastore.

46. (Currently amended) The computer-readable medium as defined in claim 43, wherein the one or more data table objects populate one or more internal caches with

read-write data associated with the bound datastore.

47. (Currently Amended) The computer-readable storage medium as defined in claim 46, wherein queries to the bound datastore are responded to with data in the one or more internal caches through the [[a]] table interface of the data table object.

48. (Currently amended) The computer-readable storage medium as defined in claim 43, wherein the one or more logic table objects provide one or more callers with access to COM configuration data.

49. (Currently amended) The computer-readable storage medium as defined in claim 48, wherein the one or more logic table objects present the COM configuration data in a virtual table format with a predetermined table interface.

50. (Currently amended) The computer-readable storage medium as defined in claim 43, wherein the COM configuration data in the one or more logic table objects is accessed by a table-oriented interface that includes a table cursor method.

51. (Currently amended) The computer-readable storage medium as defined in claim 43, wherein the logic table object presents domain-specific COM configuration data.

52. (Currently amended) The computer-readable storage medium as defined in claim

51, wherein the domain-specific COM configuration data is defined by one or more input parameters.

53. (Currently amended) The computer-readable storage medium as defined in claim 52, wherein the one or more input parameters include at least one of a database ID, a table ID, a query parameter, and a level of server parameter.

54. (Currently amended) The computer-readable storage medium as defined in claim 43, wherein the one or more logic table objects merge COM configuration data from at least two of the one or more data table objects and the one or more logic table objects.

55. (cancelled)

56. (cancelled)

57. (Currently amended) A computer-readable storage medium having computer-executable components executed by a computer system causing the computer system to provide access and management of Component Object Model (COM) configuration data about applications and services, in a configuration-time environment, sourced by one or more datastores, the components comprising:

an administration tool to present COM configuration data to a caller;

one or more client table objects, the one or more client table objects providing COM configuration data for the administration tool to present to the caller;

one or more catalog server objects, each of the client table objects bound to a catalog server object, each catalog server object executing on a single computer, managing COM configuration data on the single computer, and receiving all calls for COM configuration data located on the single computer; and

one or more table systems created by the one or more catalog server objects in response to a request for COM configuration data, each table system providing COM configuration data to the one or more catalog server objects, the table system including: one or more datastores to store the COM configuration data;

one or more first logic table objects to present the COM configuration data;

one or more data table objects created by the one or more first logic table objects, each data table object exposing a table cursor into one of the datastores, each data table object bound to one of the datastores;

wherein COM configuration data is related from the table system to the administration tool and presented to the caller; and

wherein the one or more first logic table objects supplement functionality of the one or more data table objects by intercepting interface calls and providing, at least one of, additional and overriding functionality of the one or more data table objects or the one or more first logic table objects synthesize data, according to a type of request for COM configuration data, which is not available from the one or more data table objects.

58. (Currently amended) The computer-readable storage medium as defined in claim 57, having further computer-executable components comprising:

one or more second logic table objects created by the administration tool, the one or more second logic table objects creating the one or more client table objects, wherein the one or more second logic table objects receive the COM configuration data from the client table objects and provide the COM configuration data to the administration tool in a table format.

59. (Currently amended) The computer-readable storage medium as defined in claim 58, wherein one of the second logic table objects is a multiple-domain specific logic table object that communicates with two or more client table objects.

60. (Currently amended) The computer-readable storage medium as defined in claim 58, wherein the one or more second logic table objects present the COM configuration data in a virtual table format with a predetermined table interface.

61. (Currently amended) The computer-readable storage medium as defined in claim 57, wherein the table cursor is a predetermined table-oriented interface that hides the location and format of the underlying datastore.

Art Unit: 2162

62. (Currently amended) The computer-readable storage medium as defined in claim 57, wherein two or more data table objects access one datastore.

63. (Currently amended) The computer-readable storage medium as defined in claim 57, wherein the one or more data table objects populate one or more internal caches with read-write data associated with the bound datastore.

64. (Currently amended) The computer-readable storage medium as defined in claim 63, wherein queries to the bound datastore are responded to with data in the one or more internal caches through the a table interface of the data table object.

65. (Currently amended) The computer-readable storage medium as defined in claim 57, wherein the one or more first logic table objects provide one or more callers with access to COM configuration data.

66. (Currently amended) The computer-readable storage medium as defined in claim 65, wherein the COM configuration data in the one or more first logic table objects is accessed by a table-oriented interface that includes a table cursor method.

67. (Currently amended) The computer-readable storage medium as defined in claim 57, wherein the first logic table object presents domain-specific COM configuration data.



68. (Currently amended) The computer-readable storage medium as defined in claim 67, wherein the domain-specific COM configuration data is defined by one or more input parameters.

69. (Currently amended) The computer-readable storage medium as defined in claim 68, wherein the one or more input parameters include at least one of a database ID, a table ID, a query parameter, and a level of server parameter.

70. (Currently amended) The computer-readable storage medium as defined in claim 57, wherein the one or more first logic table objects merge COM configuration data from at least two of the one or more data table objects and the one or more first logic table objects.

71. (cancelled).

72. (cancelled) .

73. (Currently amended) The computer-readable storage medium as defined in claim 57, wherein both local and remote requests for COM configuration data are responded to by the catalog server object on the single computer.

74. (Currently amended) The computer-readable storage medium as defined in claim 57, wherein the one or more catalog server objects include one or more local catalog

server objects executed on a local client computer to manage COM configuration data on the local client computer and one or more remote catalog server objects executed on a remote computer to manage COM configuration data on the remote computer.

75. (Currently amended) The computer-readable storage medium as defined in claim 74, wherein the remote computer is a server computer.

***Allowable Subject Matter***

3. Claims 43-54, 57-70 and 73-75 are allowed.

The following is an examiner's statement of reasons for allowance:

As to claims 43 and 57, the examiner agrees the amendment overcome the 101 rejection and in addition the examiner also agrees with the applicant argument "Lei does not manage configuration information at runtime (or configuration time) for COM applications or services. In particular, Lei simply does not teach creation of table objects to abstract configuration information stored in several disparate datastores, wherein a data table object provides a table interface into the datastore. Thus, the newly amended claims are allowable over the asserted prior art. And further more, Lie also does not teach wherein the one or more logic table objects supplement functionality of the one or more data table objects by intercepting interface calls and providing, at least one of, additional and overriding functionality of the one or more data table objects or the one or more logic table objects synthesize data, according to a type of request for COM configuration data, which is not available from the one or more data table objects."

Claims 44-54 depended on claim 43; therefore, claims 44-54 are allowed under the same reason as to claim 43.

Claims 58-70 and 73-75 depended on claim 57; therefore, claims 57-70 and 73-75 are allowed under the same reason as to claim 57.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

#### Patent:

|                        |                                  |                          |
|------------------------|----------------------------------|--------------------------|
| Coron et al.           | (US. Patent No. 6,108,611)       | Patent date: 08/22/2000. |
| Andrews et al.         | (US. Patent No. 6,006,711 B2)    | Patent date: 08/12/2003. |
| Andrew et al.          | (US. Patent No. 6,547,736 B1)    | Patent date: 07/02/2003. |
| Balasubramaniam et al. | (US. Patent No. 6,477,550 B1)    | Patent date: 11/05/2002. |
| Forin et al.           | (US. Patent No. 2003/0033441 A1) | Patent date: 02/13/2002. |
| Guyan et al.           | (US. Patent No. 2003/0145124 A1) | Patent date: 07/31/2003. |
| Forin et al.           | (US. Patent No. 7,159,222 B2)    | Patent date: 01/02/2007. |
| Hunt                   | (US. Patent No. 7,039,919 B1)    | Patent date: 05/02/2006. |
| Forin et al.           | (US. Patent No. 7,143,421 B2)    | Patent date: 11/28/2006. |

|               |                                |                          |
|---------------|--------------------------------|--------------------------|
| Hunt          | (US. Patent No. 6,988,271 B2)  | Patent date: 01/17/2006. |
| Forin et al.  | (US. Patent No. 6,728,963 B1)  | Patent date: 04/27/2004. |
| Thatte et al. | (US. Patent No. 6,442,620 B1)  | Patent date: 08/27/2002. |
| Caron et al.  | (US. Patent No. 6,449,659 B1)  | Patent date: 09/10/2002. |
| Beck et al.   | (US. Patent No. 6,167,395)     | Patent date: 12/26/2000. |
| Hunt          | (US. Patent No. 6,230,312 B1)  | Patent date: 05/08/2001. |
| Craig et al.  | (US. Patent No. 6,513,112 B1)  | Patent date: 07/28/2003. |
| Craig et al.  | (US. Patent No. 6,5978,037 B1) | Patent date: 07/22/2003. |
| Craig et al.  | (US. Patent No. 6,466,943 B1)  | Patent date: 10/15/2002. |
| Craig et al.  | (US. Patent No. 6,421,682 B1)  | Patent date: 07/16/2002. |

NPL:

Souza et al. Proposal of a Multilayer Shield Design Using Genetic Algorithm, Instrumentation and Measurement. Vol. 3, page 2300-2305, May 16-19,2005.

Vogels et al. Quintet, tools for reliable enterprise computing, Enterprise Distributed Object Workshop, pages 2784-280, Nov 3-5 1998.

Gil et al. Environment acquisition: a new inheritance-like abstraction mechanism, Conference of Object Oriented Programming Language and Applications, pages 214-231, 1996.

Niz et al. Time Weaver: a software-through-models framework for embedded real-time systems, Language, Compiler and Tool Support for Embedded Systems, Pages 133-143, 2003.

**Contact Information**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-4041, or unofficial fax number for the purpose of discussion (571) 273-4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231.


The fax numbers for the organization where this application or proceeding is assigned are as follow:

(571) 273-8300 [Official Communication]

BQ To

May 25<sup>th</sup>, 2007



  
primary Examiner  
Cam y Tuong